Chemical Name	Common Name
Selenium	Selenium

Section I

Manufacturer's Name Resource Alloys and Metals, Inc.	Emergency Telephone Number 561/790-7200
Address 250 Business Parkway, Suite 1	Telephone Number for Information 561/790-7200
Royal Palm Beach, FL 33411	Date Prepared 08/01/05

Section II - Hazard Ingredients/Identity Information

Hazardous Components	OSHA PEL	OSHA PEL (mg/m³)		ACGIH TLV (mg/m²)	
	TWA	Ceiling	TWA	STEL	
Selenium	0.2	none	0.2	none	>99.5

Section III - Physical/Chemical Characteristics

Boiling Point	1265° F	Specific Gravity (H ₂ 0 = 1)	4.81
Vapor Pressure (mm Hg.)	1 @ 673° F	Melting Point	423° F
Vapor Density (AIR = 1)	NA	Evaporation Rate	NA
Solubility in Water	Not soluble	Appearance and Odor	Steel gray, odorless solid

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used) NA	Flammable Limits Not flammable	LEL NA	NA NA
Extinguishing Media Class D fire extinguisher, dry chemical or dr	y sand. Do not use water.		
Special Fire Fighting Procedures Do not use water. Wear SCB apparatus if ne	cessary.		
Unusual Fire and Explosion Hazards Dust may generate fire. Never use water on 1	molten metal or charge wet meta	d or explos	ion will occur.

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Section V - Reactivity Data

Stability	Unstable		Conditions to Avoid	
	Stable (at room temp)	X	Wet or humid conditions	
Incompatibility (Material	s to Avoid) oxidizing agents. Avoid water with n	nolten	meral	
Avoid contact with	oxidizing agents. Avoid water with it	HOICCH	metal.	
Hazardous Decompositio			niciai.	

Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation? yes	Skin? yes	Ingestion? yes	Eye Contact? yes
selenium and/or	its oxides. Breathing fumes containing s	g these dusts or fume	essing may produce du s may present potentia kin or eye irritation. Ir	
Carcinogenicity:	NTP? yes	IAI		DSHA?
Signs and Symptoms of Headache, chills,	f Exposure fever, metallic taste	or garlic breath.		
	nerally Aggravated by Ex dneys, skin, liver, l	posure ings and gastrointest	nal tract.	
with large amoun	act – flush eyes with ts of water and soa		o fresh air. <i>Ingested</i> – I	utes; wash affected area nduce vomiting, give

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled

If metal is in a molten state, avoid contact with water or moisture. If it is in a solid state, be careful of sharp edges. Vacuum dust.

Precautions to be Taken in Handling and Storing

Use good housekeeping practices to prevent accumulations of dust and keep airborne dust concentrations at a minimum. Avoid breathing dust or fumes. Store metal in a dry area away from incompatible materials. Keep dust away from sources of ignition. Preheat metal when required to evaporate surface moisture prior to melting. Ice, snow, grease, oil or moisture can cause explosions. Remove these contaminants before charging ingot to melting furnace.

Other Precautions

Use safe foundry practices.

Section VIII - Control Measures

Respiratory Protection

A mask/full-face respirator should be worn if air contaminant concentrations exceed exposure limits or if excessive dust concentrations occur.

Ventilation

Provide ventilation necessary to maintain concentrations of air contaminants below recommended levels.

Eve Protection

Goggles should be worn if excessive dust concentrations occur and when working with molten metal.

Protective Clothing

Gloves should be worn to avoid cuts and during operations with significant skin contact (i.e. grinding). Full protective clothing should be worn by workers exposed to heavy concentrations of dust or high heat and during alloying operations to prevent injury from molten metal splashing, spilling, etc.

Work/Hygienic Practices

As necessary to maintain exposures below TLVs and PELs and follow good normal hygienic practices.

Information herein is given in good faith as authoritative and valid; however, no warranties, expressed or implied, can be made.